

Figure 1

Role of HWP1 in health of mice orally colonized with C. albicans.

Number of mice given C. albicans strains of HWP1 type	II. HWP1 REVERTANT	S - 1	total 7 11 4 *P < 0.05 compared to the heterozygote, P = .058 compared to the revertant. P < .05 compared to combined heterozygote and revertant groups. Survival differences between other groups were not significant.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	hwp1/hwp1* homozygote	9	71 zygote, P = .058 c jote and revertant	5 5 to the heterozygo s were not significa	
	I. HWP1 HETEROZY GOTE	5	7 3.05 compared to the hetero hared to combined heterozyg groups were not significant.	5 0 5 mpared to individually between other groups	
Health		iil not iil	total *P < 0.05 c compared t other group	ill Not ill total *P < .01 co	
Mouse type		Beige nude		Epsilon 26	

Figure 2

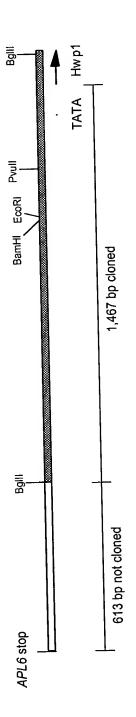


Figure 3

- AATCAACTAAGCACGTTTGACAGTTAAAAAGTACGTTGTTGTTCTCGTCTCGTCTAATTTCTGTTGACGAGGATTAATAACA AGAAATACAGGAAACCCTCCAAAAAAAAATTTTGGACCTTACACGCACATAAATTGCGGATAAACTTGCCATAATAAAAACTCT 17
- ATGAAAAGGTAAGAGTTGCCTAACCATTGAAAATAATAGGCTAAGGTTTTTCCTGATGCGTTTAACTAAAAAGGAAATAACAAAA GTTATTAGCGATAACCTGCGTAAGGTGTCAACAAAATATATTTTGCACGTTAGCTCTATAGAAAATATACAAACTAAATCCTTAA 341

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- GGAATTTCCTCTATATATAGGAAATCCCTCTCACAGTGAACTGAATTATCCATCTGAATTATCAGTCCACTAATTCCATCAA 511
- TAAAATAGATTAGTGTATTGTTCTCTTCAGTACAATTACTACCATTATGCAATGCTAGCTTATTGTTCATAATTAGCCATGTTGC 681
- AAAAATATTTGAAAAAACACATAACACTTTGAGTATGATAATATCAACTATTGACTTGTTTTGAAAGTAAAGAATCAAATTTTT
 - 851
- TTATAATTAACAAGTCATCTATAATTCTTTGGATCCAAAAACAAGGAATTCGGAAATTCTGACGATAAATGTCGACTCACAATTC EcoRI BamHI
- 1106
- CATTTTGTTTCACTTTTTGTTGCGACTTTAATACCGTTTTTGCAACTTCTCTTTTGTATCACCTGTATCCGCCTTTTTTAACATAG 1191
- CAACTCTTGTAAAGTCCCTTTCTTTTCCCACTATTTTATCATTCTTGAAATATGTAATCAGAATAGTTTTTCAAAAAC*TATAAAT* 1276
- AACGGTCAAAATAACCGGCTATTTTCAATTTCCATTCAACTTGTTTTCTCAACAATATCAAACAACAGGAATCTCCTATAGTC
- ACTCGCTTTTAGTTTCGTCAATATG [SEQ ID. NO: 1] 1446

Figure 5

GATTGTTTTCAATTTTGGGTTTTCAATATTATTGACAAGAGTCATTTTATTGAATATTTGT TTTGTTTACTACATTAAAGGTGATAGGTACTTTTAGTTTTTAAAAATTGTTTTGTTCAAATT GTTTATCTTTTCTTCTTCTTCTACTTGCTTTGTTTTCTGTTTTCGGTTCATAGTTGATAGCTT TT<u>AATAAA</u>TACCCCTTTTTTTTACAATAGTTAGTTCTAAGCTTATTCAGTGGTTTAATTGG TAGAAAATGTGAGCTCTGTAGCTTATGGTATCTTCTATAGCAATATATTTAACTTGGACAT AGTTCATTATTCTGGACGCATGAAGGTGCAAAGTCAAAAAGTGAGAATATGCAAAGAGGT ${\tt AATTAGATTTCTGTCCTATTAATTAACAAAAAATC} \underline{{\tt TATATATA}} {\tt GACTGCAATATTTAATAC}$ CCCCCAAGTTTGATTCTATAATCCTTCGATTTCTATAAAGATATAACCATGAATCATGAGT AAATACCAAATAGATTAATAGTAGAATCTGTATGGTCGTGTAAAGCTGTTCATTAAAAAC ATAAAAGATTGAAAAATTATTAAACAAAACAACAAAACGGGAAACCGGAAACCTGAGAAA **AAGAAAGAAAGAA**GGAAAACTTTTGTTAAGATATTAAATTTTACGAAGCAAATTTAAAAT AATCTCTTTATTCCTTTCTTTTATTATTATTTACCCTTAATATAAAATGTCAAAACAAGA TCCACCTCCAGATTATACAAATAGGACATCAGATAATTATAACCCAGATACAACTGATAATCA TAATATTCCTCCACCTTTCACTACTCATCCTATAGAGGTTCATCCACCACCATTCTCCTCTTC TACTTCACCTAATATCCGTGTGCCAGCATATTTTCAAAATCAAACTACTTCAGGATGGACAAT AGTAATAAATAATCGATTTTGGACTGATGGATTCAGGATATTTGTTTCCGAAGATGCATCTAA TAAGTTTGATGCCTTCAAAAAAGTAAAAATCCCGAAATAATACAATTACAAGAACAAGGTA TTGGAGTACCGTTATTTAAAGCTGTCACGTCATATATTCCCTTAGCAACAAAATTTATAACGT TTAGAAGATATGTCCCTACTAATTTACATCCATTTGATATTGATAAAGATTATTATGATTATT GTATTGTTAAACGGAAATTACACGTTGGATATGATAGTTATATTTTGAATTTACTCCTGATC GAGAATTCGGATCC [SEQ ID. NO: 4]

Figure 6

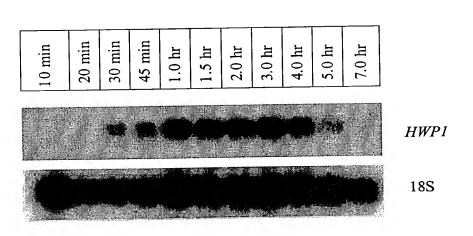
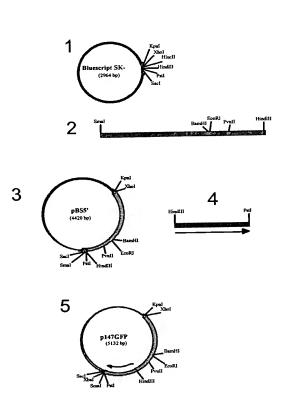


Figure 7



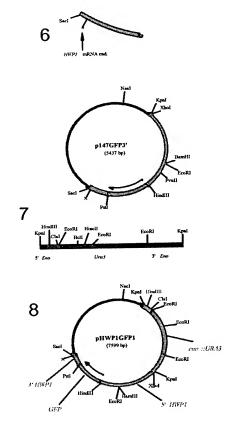
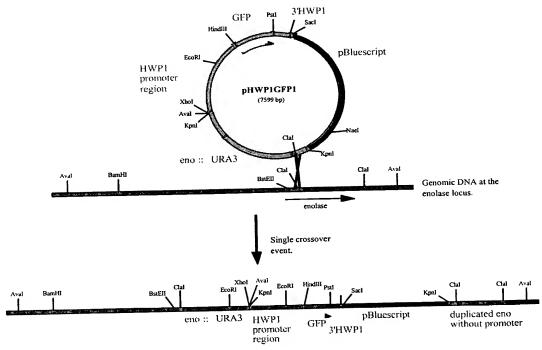


Figure 8

Integration of pHWP1GFP1 into the chromosome of C.albicans at the enolase locus.



Integration of construct at the enolase locus.

Figure 9

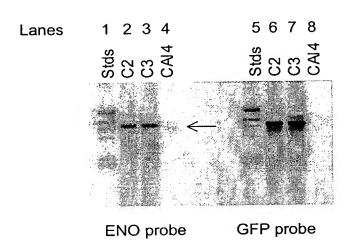
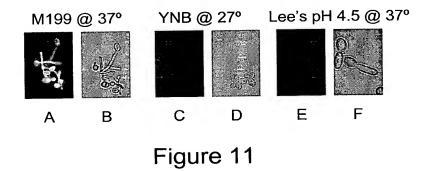


Figure 10



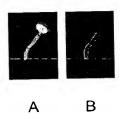
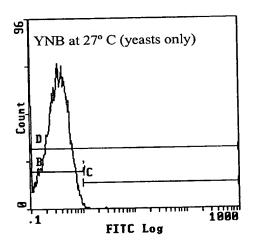


Figure 12



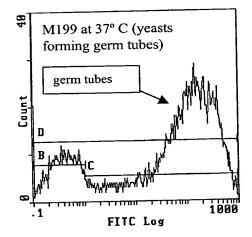


Figure 13A

Figure 13B

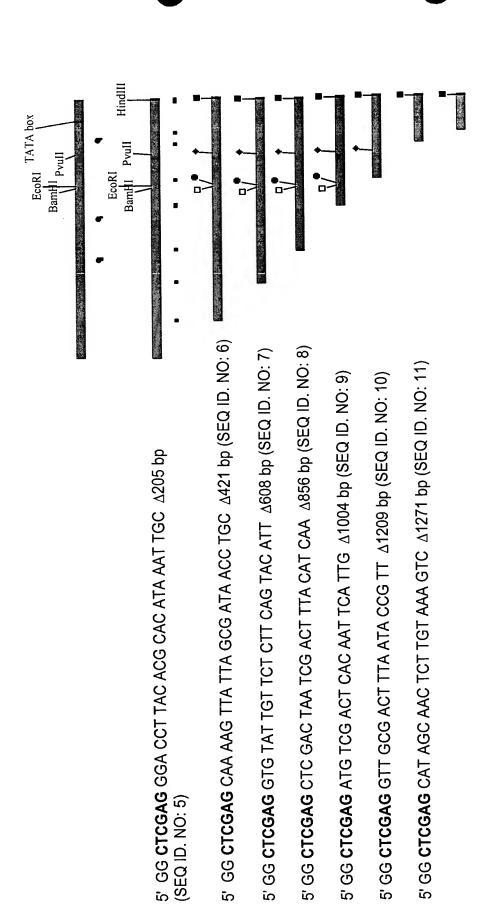


Figure 14B

 \int_{20}^{20}

Figure 14A

interest.

Identification of virulence and morphogenesis factors in C. albicans

I. STEP 1: CREATE A GENOMIC LIBRARY FOR MICROARRAY CONSTRUCTION

Prepare C. albicans genomic DNA. Sau 3A partial digest. Size selection of 0.5 to 2.0 kb fragments. Clone genomic fragments into plasmid vector (pBluescript). 000000000 A. STEP 2: Create Microarray 00000000 Transfer transformants to 000000000 96-well plates. Perform colony PCR using universal primers. **Check PCR rxns** on gels and rearray positives on 96-well Spot productive rxns on Labeled cDNA from strain; membranes. dnabpg null mutant with DNABPG Labeled Prepare and label cDNA from mRNA of cDNA. strains with and without DNABPG mutant wild type Hybridize labeled cDNA to 0000 0000 duplicate membranes. 0000 0000 0000 0 0 0 0 Go back to 96-well plates and sequence the clones of In vivo analysis of genes.